Localized defects of the alveolar crest impair prosthetic restoration of the damaged ridge area, causing esthetic and phonetic problems and oral hygiene complications. Augmentation of the partially edentulous ridge can significantly improve the results of the final prosthodontic rehabilitation. For enhancing soft tissue volume, the onlay gingival graft is one of the choice of treatment. The aim of this report is to present the successfully periodontal and prosthodontic treatment of alveolar ridge deformity in maxillary anterior region and its long-term follow-up.